



全穎精密
MOUNTOP PRECISION

公司簡介

Company Profile



全穎精密創立於1979年，以高階熱處理技術核心為基礎，持續引進環保、高效能熱處理設備服務國內、外客戶。隨時間經驗累積精密研磨技術，產品涵蓋傳統機械油泵零件、家用電器冷氣壓縮機葉片、汽車轉速油泵零件、高精密度工件研磨等。產品遍佈東南亞、美洲、歐洲等國家，未來將持續秉持專業生產、品質保證精神，穩健紮根全世界。

MOUNTOP was founded in 1979, driven by a passion for advanced heat treatment technology. Over the decades, we have continuously embraced environmentally friendly, high-performance heat treatment solutions to serve a diverse range of clients both in Taiwan and around the world.

With the accumulation of experience and time, we have continuously refined our precision grinding technology. Our product range covers components for mechanical oil pumps, blades for household air conditioner compressors, automotive oil pumps, and high-precision workpiece grinding.



經營理念

Business Philosophy

『步步踏實 時時創新』是創辦人賦予組織之理念。經營上以誠信為基礎，百分之百穩健踏實專注生產，保持與時俱進精益求精之創新卓越改善精神。

“Steady progress and constant innovation” is the founding philosophy personally entrusted to the organization by the founder. Guided by unwavering integrity in our operations, we adhere to a philosophy of prudent, dedicated, and reliable production. With a spirit of continuous refinement and forward-thinking innovation, we remain committed to excellence and advancing with the times.



專業認證 Professional Certification

ISO 9001 / IATF 16949 / 特殊工程認定書



生産設備 Production Equipment



量測設備 Measuring Equipment



公司沿革

Company History

1979 ● 全額於台中設立
Established in Taichung

1979-1984 ● 以德國鹽浴熱處理爐開始初期代客加工高速鋼、模具鋼業務；後期成立工具製造廠，生產冷、熱間鍛造沖具業務。
Initially, the company launched its operations with a German salt bath heat treatment furnace, focusing on subcontract processing of high-speed steel and tool steel. In its subsequent development, a dedicated tooling factory was established to manufacture punches for both cold and hot forging applications.

1985-1999 ● 引進瑞士SOLO鐘形立式熱處理爐，持續熱處理代客業務；生產工廠轉型至家電、機械、及汽車零件領域製造，與各式精密工件研磨加工。
In response to evolving market demands and a commitment to technological advancement, MOUNTOP Precision introduced the Swiss-made SOLO bell-type vertical heat treatment furnace, significantly enhancing its subcontracted heat treatment capabilities. Simultaneously, the company transformed to the precision grinding business, shifting toward the manufacturing of components for household appliances, industrial machinery, and the automotive sector. This transition was complemented by the continuous development of precision grinding services for a wide variety of high-accuracy work pieces, reinforcing MOUNTOP position as a reliable partner in precision manufacturing.

2000 ● 導入ISO9001品質系統認證
Achieved the ISO 9001 quality management system

2013 ● 導入IATF16949汽車品質系統認證
Achieved the IATF 16949 automotive quality system certification

2015 ● 導入CQI9熱處理品質系統
Achieved the CQI-9 Heat-treatment Q/A system Approved

2017-2019 ● 擴建嘉義大埔美精密機械園區
11,000 坪生產基地
New factory built in Chia Yi Ind. park Space : 363,000 m²

2020 ● 正式啟用嘉義生產工廠
Chiayi production factory opening

2021 ● 引進德國真空雙室爐、
熱處理高純淨度鏡面鋼、高速鋼、冷作鋼
Schmitz (German Twin chambers Vacuum Furnace) NADCA-approved



The image is a composite background for a presentation slide. The top half shows a large industrial furnace with its circular door open, revealing a blue cart loaded with several stacked metal mesh baskets. A person's arm in a blue uniform and white glove is visible on the right, interacting with the furnace. The bottom half of the image is a close-up, blurred view of glowing orange-red metal parts, likely being heated or quenched, with bright sparks or light reflecting off their surfaces.

熱處理 Heat Treatment

■ 處理說明 Application

冷鍛、溫鍛、熱鍛模具沖頭依不同鍛造工序，所需抗壓強度、硬度，展現出較佳的高溫抗疲勞度，達耐熱性能並提升模具壽命及產品良率。

Cold forging, warm forging, and hot forging die and punches with higher compressive strength and hardness according to different forging processes, showing better high temperature fatigue resistance with heat resistance and improving die life for products higher yield rate.

■ 工藝名稱 H.T.Process

應力消除、淬火、回火、深冷處理、退火。

Stress Relieving, Quenching, Tempering, Sub-Zero treatment, Annealing.

■ 材質範例 Grades

1.3343 / 1.3344 / SKH51 / SKH55 / SKH59 / M2 / M35 / M42 / M50

■ 工件應用 Application



刀具 SKH55



刀片 SKH55



模具 SKH51



沖頭 SKH51



沖具 SKH51



拉刀 SKH55

粉末高速鋼 P/M HSS

■ 處理說明 Application

粉末冶金模具多為中空型體沖頭、形狀較為複雜須具備高硬度。

熱處理首要求變型量控制，以讓後續高速切削刀具損耗與加工時間縮短；

達到低成本與兼顧模具特性要求。

Powder-compacting Tooling with complicate-profiles.

High toughness small size changes Gear Hobs High Hardness with high wear-resistance toughness.

■ 工藝名稱 H.T.Process

應力消除、淬火、回火、深冷處理。

Stress relieve Handling. Quenching.

Tempering Annealing. Nitriding cryogenic treatment.

■ 材質範例 Grades

ASP2023 / ASP2030 / ASP2060 / HAP-10 / HAP-40 / HAP-5R / HAP-72 / CPM-3V,9V,10V,15V.

■ 工件應用 Application



粉末冶金模具 ASP2005



滾齒刀 ASP2030



沖頭 ASP30

■ 處理說明 Application

連續沖模，如：矽鋼片、導線架模座承板。

能提升時效與尺寸上穩定，提高良率與維持模具系統精度。

Punching & laminating Tooling for I C Molds, Si plates required size stability

High wear resistance Anti-chipping.

■ 工藝名稱 H.T.Process

應力消除、淬火、回火、深冷處理、退火。

Stress Relieving, Quenching, Tempering, Sub-Zero treatment, Annealing.

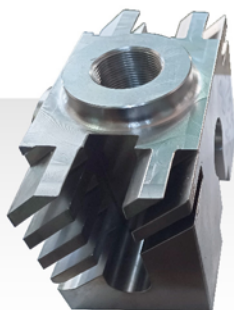
■ 材質範例 Grades

SKD11 / D2 / SLD / DC53 / YXR-3 / 1.2379

■ 工件應用 Application



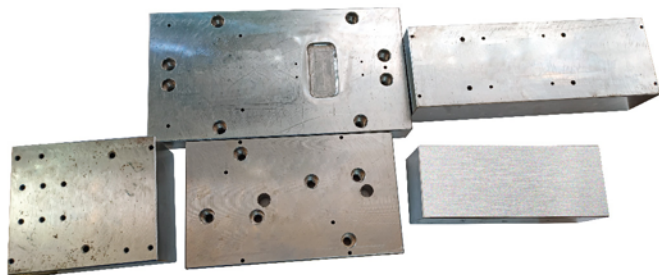
刀桿 YXR3



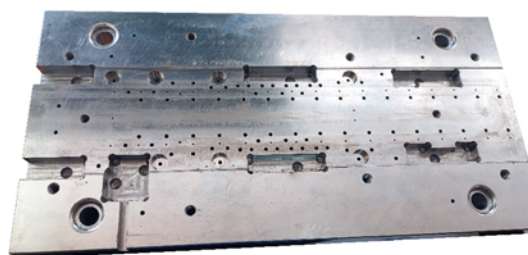
模具 SLD



內刮刀 DC53



模塊 DC53



模板 SKD11

熱作鋼 Hot Work Tool steels

■ 處理說明 Application

透過熱處理工藝，壓鑄模具可降低尺寸變形量、進而減少加工預留量；

溫、熱鍛模具可增加基底強度與穩定度，提升模具壽命與產品良率。

Die casting molds with High thermio schock resistance, heat-checking pesistcnice, Tempered bacjresistanice, cnti-soldering by surface Nitrided goog Heal-Treating process.

■ 工藝名稱 H.T.Process

應力消除、淬火、回火、退火、氣體氮化。

Stress relieve Hanling. Quenching, Tempering Annealing, Nitrding cryogenic treatment.

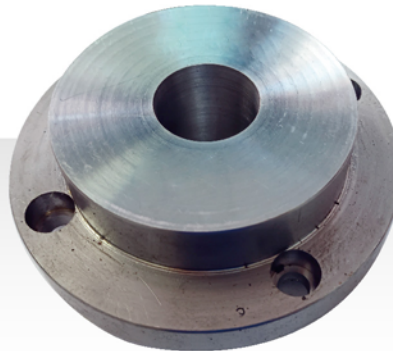
■ 材質範例 Grades

1.2714 / 1.2344 / 1.2367 / 1.2343 / SKD61 / DAC/DAC-55 / GHX1

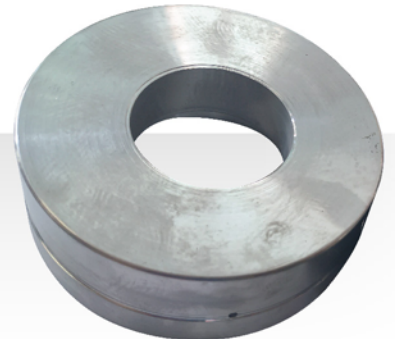
■ 工件應用 Application



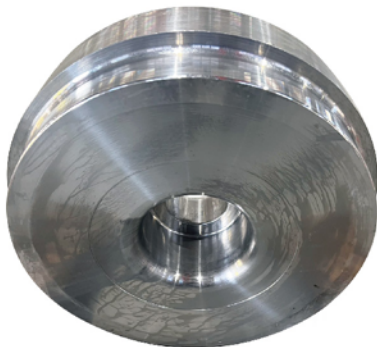
圓模 SKD61



模具 DAC



滾壓輪 SKD61



壓鑄模 GHX1



壓鑄模 GHX1

不銹鋼 (麻田散鐵系) Martensitic Stainless steels

處理說明 Application

不鏽鋼螺絲或工件，透過熱處理工藝在真空環境下，除變形小、韌性足夠外，還能保有金屬原色，確保耐蝕性。

stainless steels for Jig & Fixtures or Fasteners with or good brightness corrosion.

Resistance, optimal hardness, and small size changes etc must be controlled by good H.T process

工藝名稱 H.T.Process

應力消除、淬火、回火、退火、深冷處理。

Stress relieve Handling. Quenching.

Tempering Annealing. Nitriding cryogenic treatment.

材質範例 Grades

1.4005 / SUS304 / SUS410 / SUS416 /
SUS420J2 / SUS440B / SUS440C

工件應用 Application



不銹鋼 (析出硬化型不銹鋼) Precipitation stainless steels

處理說明 Application

固溶化處理狀態的韌性較低，但經攜出硬化處理後，可增加對應力腐蝕破裂的抵抗力、達到強度及韌性期望值。

Improved Tensile strength & stress-corrosion better Fracture toughness.

工藝名稱 H.T.Process

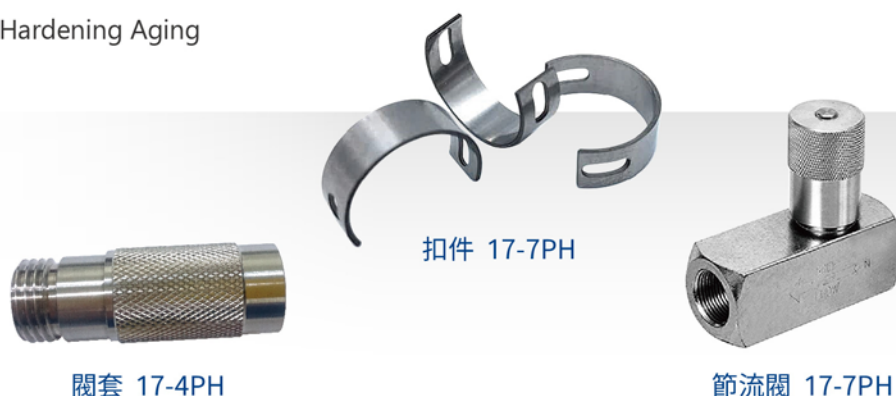
固溶化、析出硬化時效處理

Solution annealing Precipitation Hardening Aging

材質範例 Grades

17-4PH / 17-7PH / 18-5PH /
18-8PH / SUS630 / SUS631

工件應用 Application



塑膠模具鋼 Plastic Moldsteels

■ 處理說明 Application

屬光學級需求、高拋光性模具材料。多用ESR/VAR面罩眼鏡、滑雪鏡、蛙鏡、自行車燈、化妝品模具等塑膠射出模具，熱處理是良率提高的重要指標。

It is an optical lenses requirement, high polishing mold ESR/VAR steels, mask glasses, ski goggles, swimming goggles, bicycle lights and other plastic injection molds are often used. Heat treatment is an important indicator for yield rate improvement.

■ 工藝名稱 H.T.Process

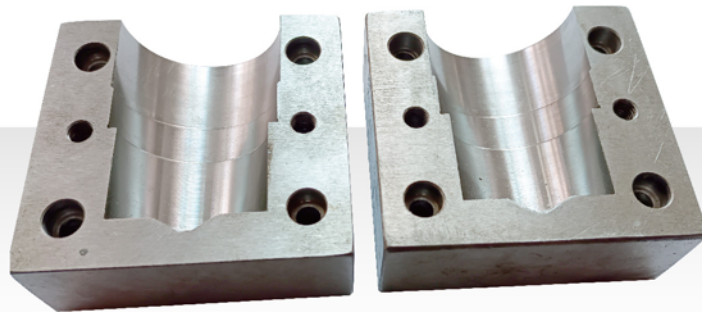
應力消除、淬火、回火、深冷處理、退火。

Stress Relieving, Quenching, Tempering, Sub-Zero treatment, Annealing.

■ 材質範例 Grades

1.2083ESR / STAVAX / HPM-38 / GPX-1

■ 工件應用 Application



模具 PD613



鏡面鋼 1.2083ESR



模具 HPM-38

■ 處理說明 Application

薄件軸承或撞針件，經熱處理工藝後，變形量極小、無須再整直，工件本身潔淨度很好。
Size stability, toagness for panches for power Tools is most Important swedging Die.

■ 工藝名稱 H.T.Process

應力消除、淬火、回火、退火、深冷處理、表面高週波處理。
Stress relieve Hanling. Quenching. Tempering Annealing.
Nitrding cryogenic treatment. Partial Hardened.

■ 材質範例 Grades

SUJ2 / AISI:S-5 / S-7

■ 工件應用 Application



軸套 SUJ2



自行車用華司 SUJ2



撞針 S7

A close-up photograph of a precision grinding machine. The machine's head, with a grinding wheel, is positioned above a workpiece held in a vise. A blue flexible coolant hose with orange nozzles is directed towards the grinding point. The background is blurred, showing other parts of the machine and a blue overlay on the left side.

精密研磨加工 Precision Grinding

汽車變速箱葉片

Transmission Oil Pump Vane

特別專注於提供動力轉向泵葉片產品。

我們的動力轉向泵葉片具有該特點，速度快、反應靈敏，可應用於汽車並能很好地提高引擎輸出功率。

Especially focused on providing Power steering pump vane products.

Our Power steering pump vanes with the feature are fast and responsive which can be applied in cars and boost engine output well.



■ 材質 Material

SKH51, M2, 高速鋼, 合金鋼
SKH51, M2, High-Speed Steel

■ 硬度 Hardness

HRC 60° ~ 65°

■ 精度要求 Precision

0.005mm以內或依客戶指定。
0.003~0.005mm or custom-made is acceptable.

規格 Specification

厚度 Thickness	寬度 Width	長度 Length
1.24	8.1	18
1.4	8.1	18
1.4	8.1	22
1.4	9	16.5
1.4	9	18
1.4	9	19.5
1.4	9	20
1.4	9	24
1.5	8	18
1.6	8	13
1.68	10.7	21.9
1.68	10.7	30.45
2	9	15.6
2	9	16
2	9	18
2	9	21
2	9	24

油壓泵浦葉片 Hydraulic Pump Vane

專精於液壓幫浦高速鋼葉片的研發與生產。

Specializes in the development and production of high-speed steel vanes for hydraulic pumps.

■ 材質 Material

SKH51, M2, 高速鋼, 合金鋼
SKH51, M2, High-Speed Steel

■ 硬度 Hardness

HRC 60°~ 65°

■ 精度要求 Precision

0.005mm以內或依客戶指定。
0.003~0.005mm or custom-made is acceptable.



規格 Specification		
厚度 Thickness	寬度 Width	長度 Length
1.6	9	12
1.6	9	18
1.6	8.45	20
1.6	8.45	22
1.8	8	22
1.8	8	30
1.8	9.5	30
1.8	10	30
1.8	10	37
1.8	12	18
1.8	12	22
2.2	12	26
2.2	12	30
2.2	19	24
2.2	19	30
2.2	19	32

V&VQ系列子母葉片 V&VQ Series Intra Van

精益求精，追求極致完美

Always Improving Quality-The Pursuit of Absolute Perfection.

材質 Material

SKH51, M2, 高速鋼, 合金鋼
SKH51, M2, High-Speed Steel

硬度 Hardness

HRC 60° ~ 65°

精度要求 Precision

0.005mm以內或依客戶指定。
0.003~0.005mm or custom-made is acceptable.



規格 Specification

厚度 Thickness	寬度 Width	長度 Length	VICKERS TYPE
2.245	14.43	21.925 x 7.107	20V
2.245	14.43	30.444 x 9.881	20V
2.604	15.30	33.294 x 8.171	2520V
3.114	18.10	40.162 x 8.420	35V / 3520V
3.114	22.60	46.416 x 8.496	45V / 4520V
3.640	18.10	40.155 x 8.420	
3.910	22.60	46.399 x 8.496	
4.40	24.70	59.260 x 10.30	

丹尼遜雙唇葉片 Denison Hollow Vane

面面俱到，將低振動阻礙

All Aspect Service-Nothing will get in the way.

材質 Material

SKH51, M2, 高速鋼, 合金鋼
SKH51, M2, High-Speed Steel

硬度 Hardness

HRC 60° ~ 65°

精度要求 Precision

0.005mm以內或依客戶指定。
0.003~0.005mm or custom-made is acceptable.



規格 Specification

厚度 Thickness	寬度 Width	長度 Length
4.76	11.2	41.8
4.80	11.4	40.6
6.35	15.0	48.2

冷氣壓縮機泵浦葉片 Rotary Compressor Pump Vane

質輕耐磨，氣流循環流暢

Light and Durable-Smooth and Clear Air Flow

- 材質 Material
SKH51, M2, 高速鋼, 合金鋼
SKH51, M2, High-Speed Steel
- 硬度 Hardness
HRC 60°~ 65°
- 精度要求 Precision
0.005mm以內或依客戶指定。
0.003~0.005mm or custom-made is acceptable.



規格 Specification		
厚度 Thickness	寬度 Width	長度 Length
3.18	21.9	25.394
3.18	24	29.494
3.20	23	22.20
4.78	26.4	25.389
4.78	26.4	24.988

馬達葉片 Motor Vane

穩定平衡，挑戰最大動能

Stability and Balance-Challenge Maximum Power

- 材質 Material
SKH51, M2, 高速鋼, 合金鋼
SKH51, M2, High-Speed Steel
- 硬度 Hardness
HRC 60°~ 65°
- 精度要求 Precision
0.005mm以內或依客戶指定。
0.003~0.005mm or custom-made is acceptable.



規格 Specification		
厚度 Thickness	寬度 Width	長度 Length
4.23	22.92	53.079
8.17	28.51	63.497
9.64	38.04	77.77 / 2 / B

斜角刀片 Blades of Plastic

■ 材質 Material

SKH55

■ 硬度 Hardness

HRC 60°~ 65°

■ 精度要求 Precision

0.005mm以內或依客戶指定。

0.003~0.005mm or custom-made is acceptable.



品名 Product Name	規格 Specification
雙斜角刀片	4x12 x 46.15
三孔刀片	4 x 12 x 34
斜角刀片	18° + 27°

客製化需求 Customized Needs



各式研磨代工 Various Grinding Subcontracting



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